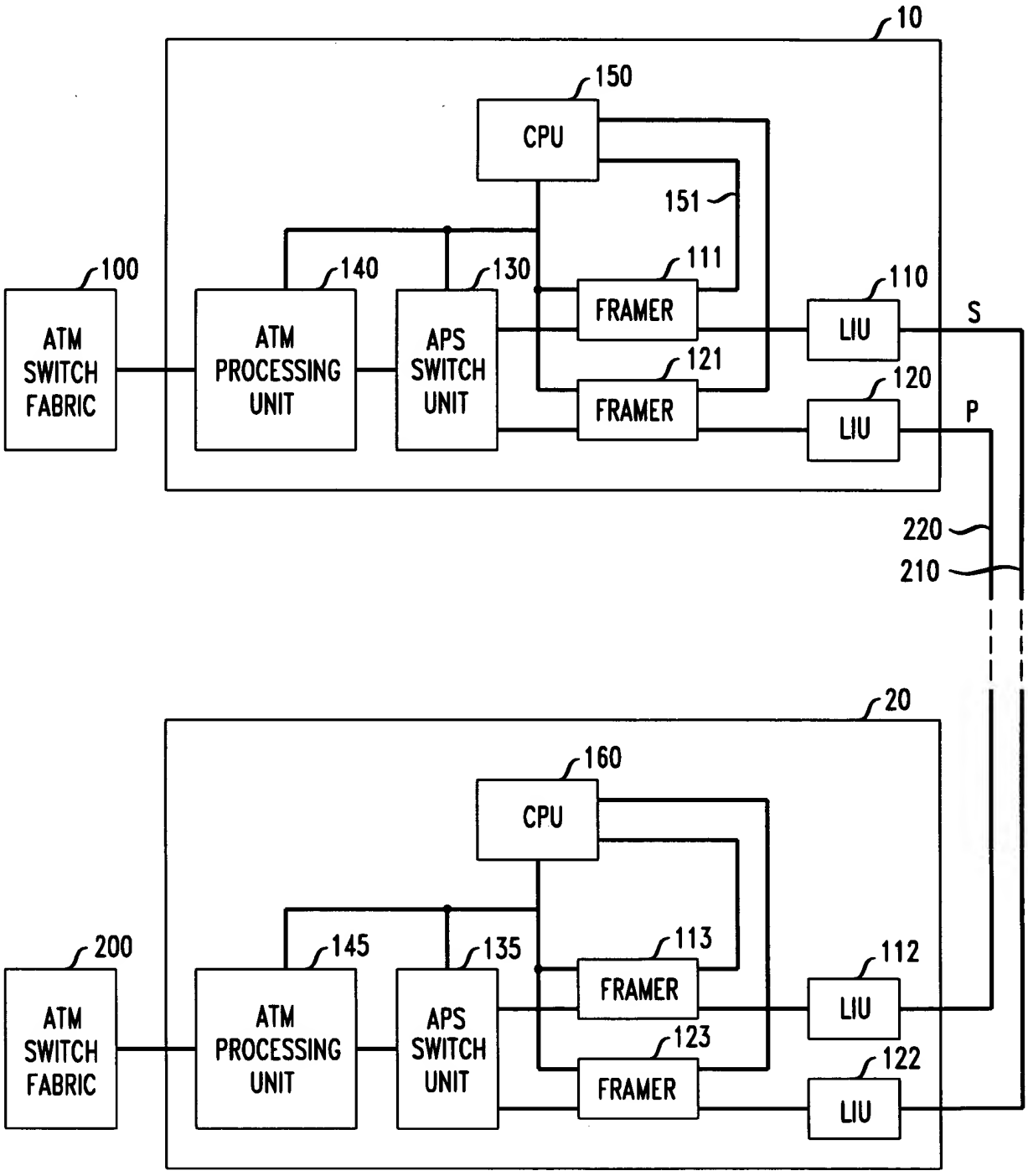
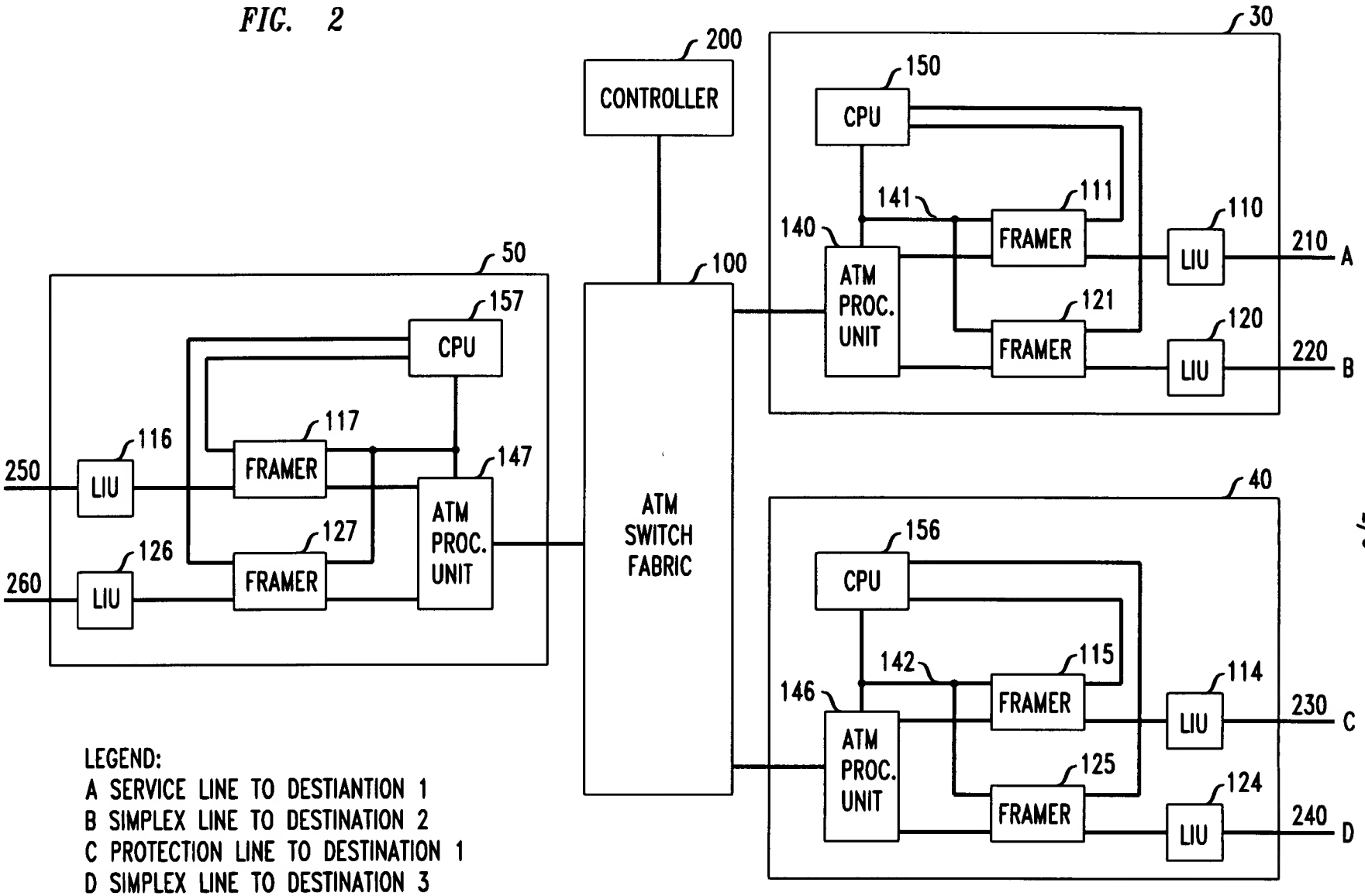
*FIG. 1*


10
150
CPU
151
111
FRAMER
110
LIU
S
121
FRAMER
120
LIU
P
100
ATM SWITCH FABRIC
140
ATM PROCESSING UNIT
130
APS SWITCH UNIT
220
210
20
160
CPU
113
FRAMER
112
LIU
123
FRAMER
122
LIU
200
ATM SWITCH FABRIC
145
ATM PROCESSING UNIT
135
APS SWITCH UNIT

6690274 020204

*FIG. 2*




LEGEND:
A SERVICE LINE TO DESTIANTION 1
B SIMPLEX LINE TO DESTINATION 2
C PROTECTION LINE TO DESTINATION 1
D SIMPLEX LINE TO DESTINATION 3

*FIG. 3*

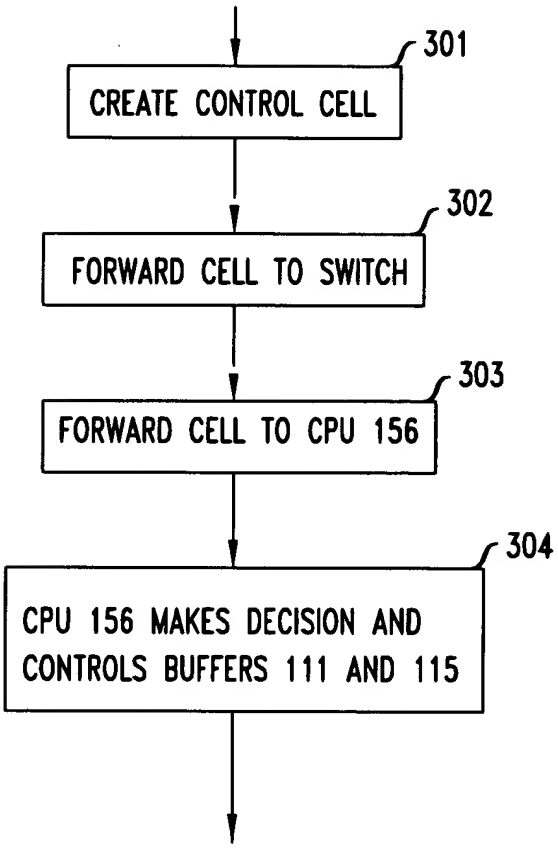

301
CREATE CONTROL CELL
302
FORWARD CELL TO SWITCH
303
FORWARD CELL TO CPU 156
304
CPU 156 MAKES DECISION AND CONTROLS BUFFERS 111 AND 115

*FIG. 4*

| HIGHEST PRIORITY / STIMULUS | LOCK OUT | FORCED SWITCH | MANUAL SWITCH | RELEASE |
|---|---|---|---|---|
| LOCK OUT | REJECT | REJECT | REJECT | ACCEPT |
| SF IN PROTECTION LINE | ACCEPT | REJECT | REJECT | REJECT |
| FORCED SWITCH | ACCEPT | REJECT | REJECT | ACCEPT |
| SF IN SERIVCE LINE | ACCEPT | ACCEPT | REJECT | REJECT |
| SD IN EITHER LINE | ACCEPT | ACCEPT | REJECT | REJECT |
| MANUAL SWITCH | ACCEPT | ACCEPT | REJECT | ACCEPT |
| NO REQUEST | ACCEPT | ACCEPT | ACCEPT | REJECT |

*FIG. 5*

SLR:

| MSB | 6 | 5 | 4 | 3 | 2 | 1 | LSB |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | FS | SF | SD | MS |

PLR:

| MSB | 6 | 5 | 4 | 3 | 2 | 1 | LSB |
|---|---|---|---|---|---|---|---|
| 0 | 0 | LO | SF | FS | 0 | SD | MS |

*FIG. 6*

| STIMULUS | BITS SET | |
|---|---|---|
| | SLR | PLR |
| MANUAL SWITCH TO MAKE PROTECTION LINE ACITVE | MS=1 | MS=0 |
| MANUAL SWITCH TO MAKE SERVICE LINE ACITVE | MS=0 | MS=1 |
| SIGNAL DEGRATED CONDITION DETECTED IN S | SD=1; MS=0 | MS=0 |
| SIGNAL DEGRATED CONDITION CLEARED IN S | SD=0 | |
| SIGNAL DEGRATED CONDITION DETECTED IN P | MS=0 | SD=1; MS=0 |
| SIGNAL DEGRATED CONDITION CLEARED IN P | | SD=0 |
| SIGNAL FAILED CONDTION DETECTED IN S | SF=1; MS=0 | MS=0 |
| SIGNAL FAILED CONDITION CLEARED IN S | SF=0 | |
| FORCED SWITCH DIRECTIVE FROM S TO P | FS=1 | FS=0 |
| FORCED SWITCH DIRECTIVE FROM P TO S | FS=0 | FS=1 |
| SIGNAL FAILED CONDTION DETECTED IN P | FS=0; MS=0 | SF=1; FS=0; MS=0 |
| SIGNAL FAILED CONDITION CLEARED IN P | | SF=0 |
| LOCKOUT | | LO=1 |
| RELEASE | SF=0; MS=0 | LO=0; FS=0; MS=0 |

S: SERVICE LINE P: PROTECTION LINE

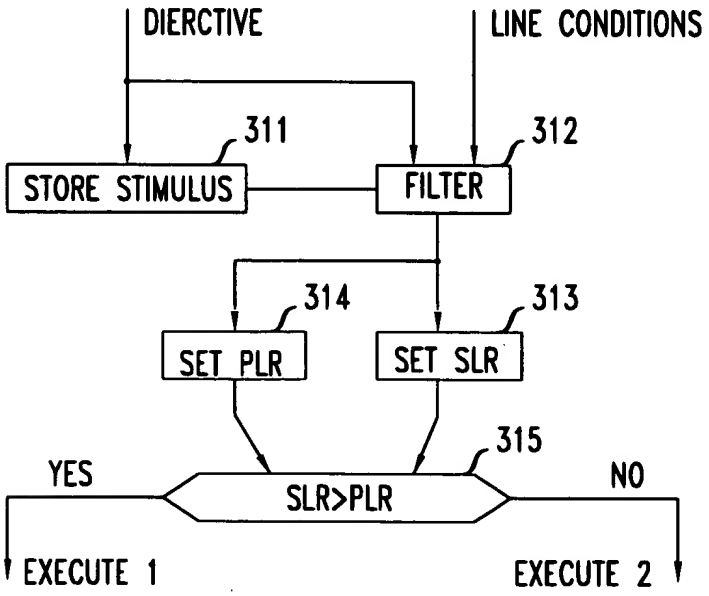



*FIG. 7*